

Searching for Datasets

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Overview

Let's look at an overview of the Dataset Discovery page. The purpose of this page is to identify datasets which are relevant to the user's criteria. The criteria that the user is entering for dataset filtering will translate into granule discovery. As filters are chosen, the dataset listing will be modified accordingly. If there's no criteria provided, then no filtering will be applied to the granule results.

Dataset Discovery is a 3 step process. **Step 1: Select Search Criteria**; which allows the user to perform a spatial search, temporal search, enter search terms, and select from a list of additional search option. Completing this step will filter the datasets listing. **Step 2: Select Datasets**; which allows the user to select the datasets, which will be used to discover granules. **Step 3: Discover Granules**; which allows the user to discovery granules based on the information completed in Step 1 & 2.

You can also access the shopping cart directly from this page to order complete datasets.

The screenshot displays the 'Step 1: Select Search Criteria' interface. On the left, a sidebar contains 'Search Options' (Spatial, Search Terms, Temporal, Platforms & Instruments, Campaigns, Processing Levels, Science Keywords) and 'Availability' (ASTER GDEM V2 Tutorial, AMSR-E Instrument Failure, Release Information, Upcoming Features). The main area is divided into three sections: 'Spatial Search' with a map and bounding box coordinates, 'Search Terms' with a text input, and 'Temporal Search' with 'START' and 'END' date/time pickers. Below these is a list of datasets for 'Step 2: Select Datasets', including 'ACRIM III Level 2 Daily Mean Data V001' and 'ADVANCED MICROWAVE SOUNDING UNIT-A'. At the bottom, 'Step 3: Discover Granules' shows selected datasets like 'A Global Database of Soil Respiration Data, Version 2.0' and 'ACRIM III Level 2 Shutter Cycle Data V001'. Buttons for 'Search for Granules' and 'Search for Granules By ID' are at the bottom right.

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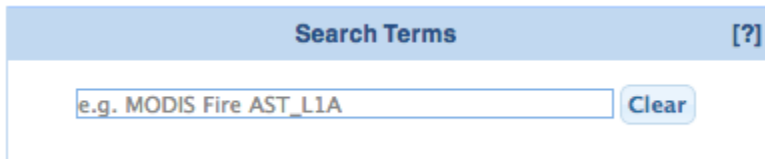
- [Searching for Granules By ID](#)

Step 1: Select Search Criteria

Free Text Search

Search terms are used to filter datasets according to the users entered text. The user's search terms are searched against targeted fields within the dataset metadata. To begin your search using **Search Terms**, enter earth, atmosphere, ocean, or land science terms into the **Text Search Box**. You can also enter the dataset name. Searching will automatically begin after a short period of time.

This feature provides a quick method for identifying dataset of interest. It lists those datasets that not only have the term in their name but also those that are scientifically relevant to the term you entered.



Search Terms [?]

e.g. MODIS Fire AST_L1A Clear

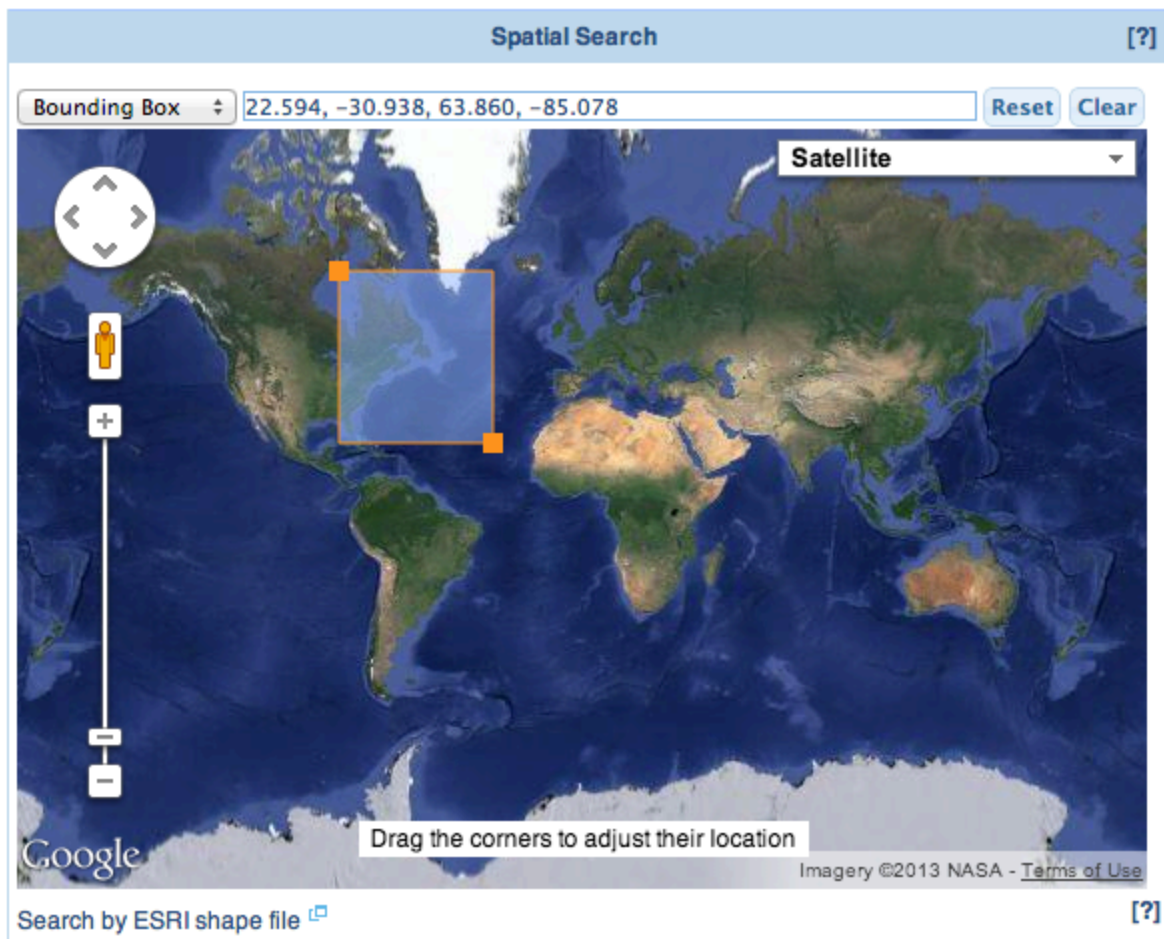
Spatial Search

You may select a geographic region of interest in the spatial section.

If no spatial information is used in your search, all datasets are included, including datasets that have no spatial information, datasets covering the entire globe, and datasets covering only a small part of the globe.

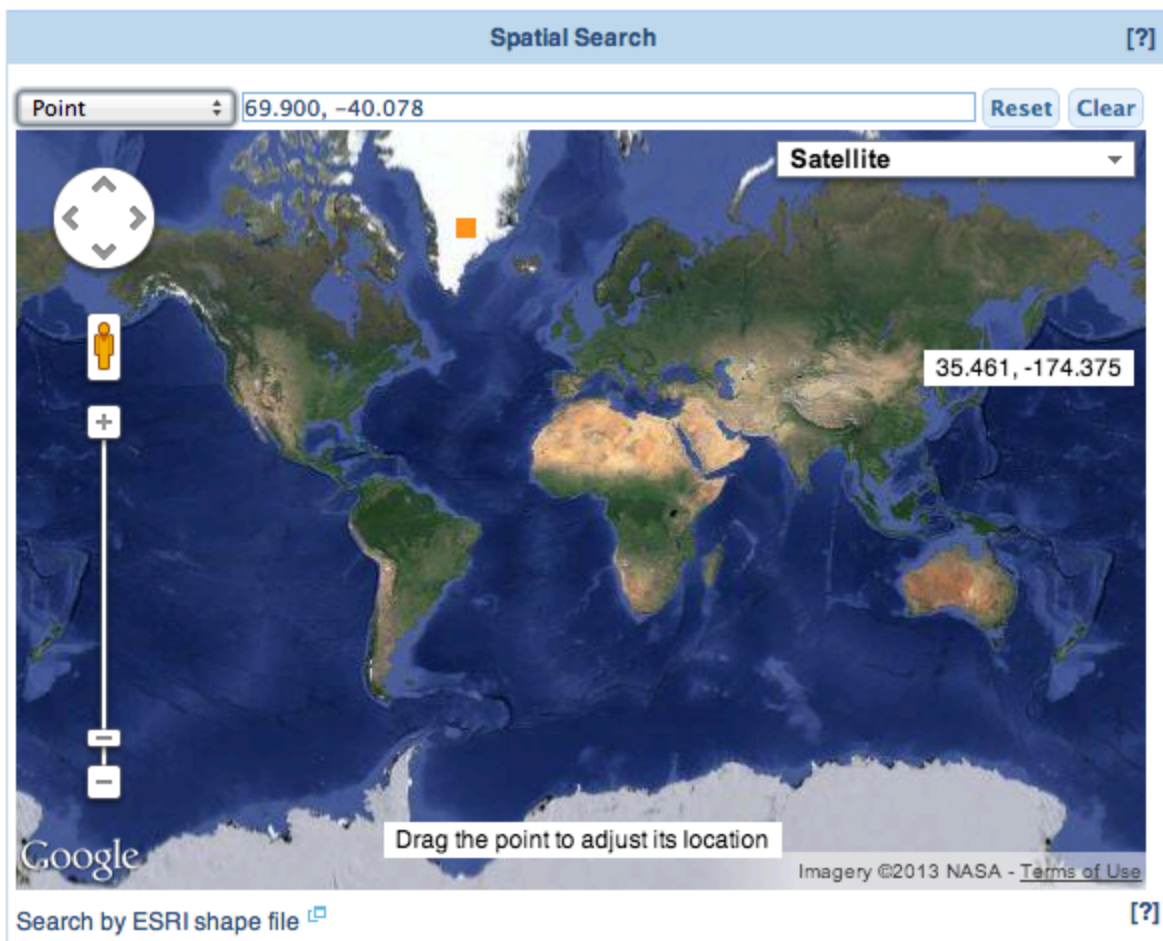
Bounding Box

Bounding Box, which allows the user to search for granules within a specific area. **Step 1:** Select Bounding Box from the entry type and select the map style. **Step 2:** The coordinates can be entered in the text box in the following order (S,E,N,W). OR Click once to set the North-West corner then drag the corners to adjust their location.



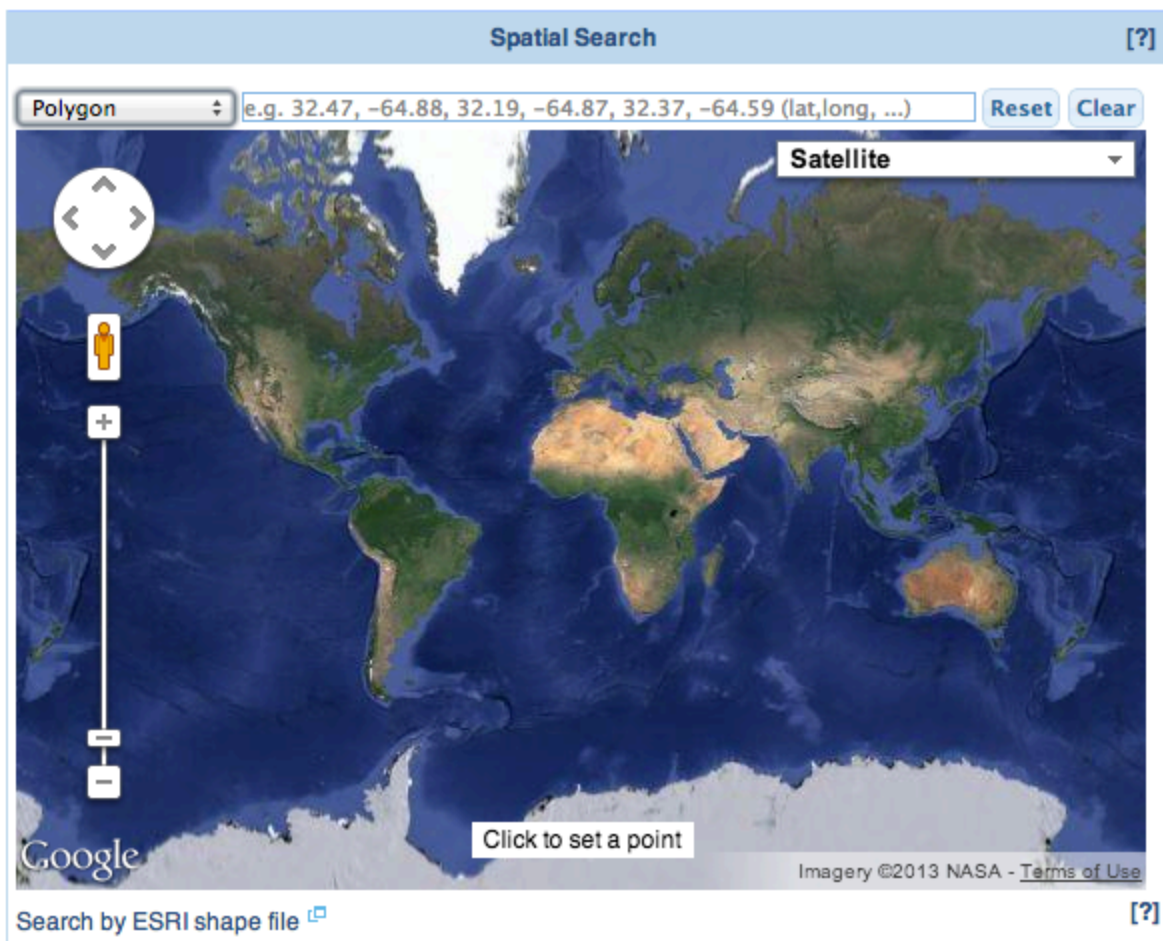
Point

Point, which allows the user to search for granules at a particular point. **Step 1:** Select Point from the entry type and select the map style. **Step 2:** The LAT and LON can be entered in the text box. OR Click once to set a spatial point then drag the point to adjust its location.



Polygon

Polygon, which allows the user to search for granules based on a plane figure that is bounded by a closed path. **Step 1:** Select Polygon from the entry type and the map style. **Step 2:** Click the map to set a point. **Step 3:** Click again to set another point, or drag existing points.



2D Coordinates

2D Coordinates, The data providers may choose to utilize a 2D coordinate system, for granules. **Step 1:** Select 2D Coordinate from the entry type and the map style. **Step 2:** Select the coordinate system. **Step 3:** Slide the boxes to set the Start and End X/Y Coordinates.

Current Supported Coordinate Systems:

- CALIPSO
- MISR
- MODIS Tile EASE
- MODIS Tile SIN
- WRS-1
- WRS-2

Spatial Search

[?]

2D Coordinate

MODIS Tile EASE:4,13,5,22

Reset

Clear

Coordinate System

MODIS Tile EASE

Start X coordinate

End X coordinate

0

4 - 13

18

Start Y coordinate

End Y coordinate

0

5 - 22

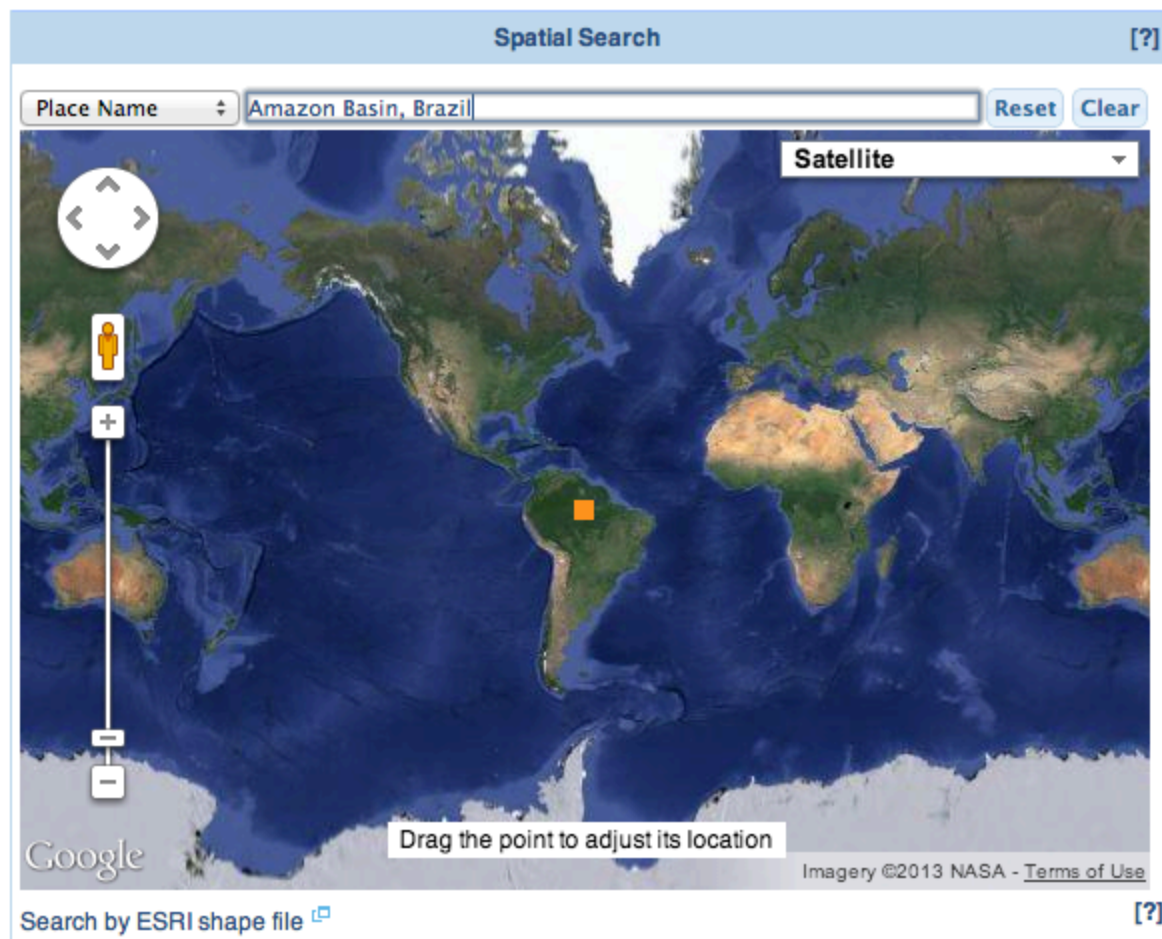
38

Search by ESRI shape file

[?]

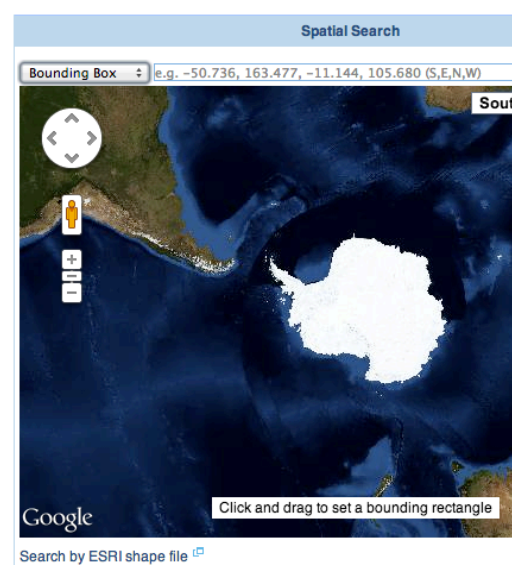
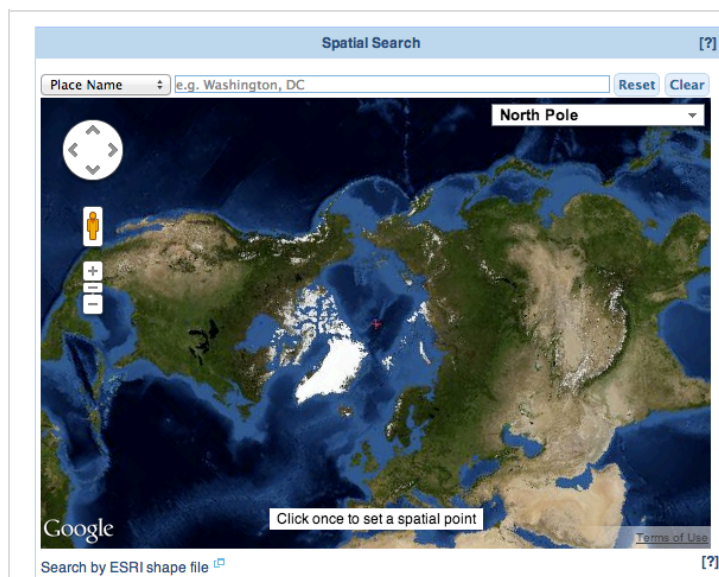
Place Name

Place Name, which allows the user to search for a specific area by city, state, country or continent. **Step 1:** Select Place Name from the entry type and select the map style. **Step 2:** Type in the destination of the search by city, state, country or continent then click on the correct name in the drop down menu. This converts the place to a point.



Polar Map Projections

Stereographic North and South Pole Maps, which allow for searching over the North and South Poles, respectively.



Temporal Search

Date and Time ranges can be entered to refine your search.

If no temporal information is used in your search, all datasets are included, including datasets that have no temporal information and datasets covering any time range.

Dates can be entered into the text field manually in standard date format, Day of Year (Julian) format or by selecting from the calendar provided. The standard date format requires that the user enter year, month, and day of the month to be specified as shown below.

The image shows a screenshot of the "Temporal Search" interface. On the left, there is a form with two main sections: "START" and "END". Each section has a text input field with a placeholder "YYYY-MM-DD HH:MM:SS" and a "Clear" button. Below the form, there are two tabs: "Date Range" (selected) and "Annual Repeating Dates". A note at the bottom states "* all times must be specified in GMT". On the right, a detailed calendar view is shown for the month of July 2011. The calendar includes a "START" field with the date "2011-07-21 00:00:00" and a "Clear" button. Below this is an "END" field with a calendar grid showing days from Sunday to Saturday. The date "21" is highlighted. To the right of the calendar grid are three vertical input fields for "H", "M", and "S", each with a "00" value. Below the calendar grid is a "Range" section with a "Day of Year" input field showing "2011-202" and a "close" button.

Seasonal or Annual Repeating Date Range Searches

The following shows an Annual Search of April 1 - 30 from the years 1990 and 2000. This can be accessed by clicking the "Annual Repeating Dates" tab at the bottom of the "Temporal Search" box.

Temporal Search

[?]

START

Month

Day

Time

April

1

00:00:00

END

Month

Day

Time

April

30

23:59:59

YEAR RANGE

1990 - 2000

Apply

Clear

* all times must be specified in GMT

Date Range

Annual Repeating Dates

Other Search Options

Reverb also provides other specific search items based on metadata catalogued within ECHO. These are exposed via the extra search options on the left hand side of the main Reverb dataset search page.

Platforms & Instruments	[?]
Campaigns	[?]
Processing Levels	[?]
Science Keywords	[?]

Platforms, Instruments, and Sensors

Make a selection by clicking the desired Platform(s), Instruments(s) or Sensor(s). Based on the selected subset, the list will be filtered. (e.g. If you select a subset from platforms, the instruments and sensors subsets will be filtered. Selecting a subset from the filtered instruments will further filter the sensor list. Filtering also works in the opposite direction as well.). Click and drag to select more than one item. After making your final selections the datasets associated will be filtered.

Search by Platforms/Instruments/Sensors



Click & drag to select 1 or more items. The lists are filtered based upon your selections.

Platforms (Any of 220) clear	Instruments (Any of 458) clear	Sensors (Any of 509) clear
ACRIMSAT i	2DC i	2.3UM RADIOMETER i
ADEOS-II i	2DVD i	2.4UM RADIOMETER i
AEM-2 i	AA i	2DC i
AERIAL PHOTOGRAPH i	AA (ATOMIC ABSORPTION SPECTROMETER) i	2DVD i
AERO COMMANDER i	AAS i	3FP i
AEROSONDE i	AATSR i	4.7UM RADIOMETER i
AIRCRAFT i	ACCELEROMETER i	AA i
AIRMOSS i	ACE-FTS i	AA (ATOMIC ABSORPTION SPECTROMETER) i
AIRSAR i	ACRIM i	AAS i
ALOS i	ACTIVE CAVITY RADIOMETER i	AATSR i

To get more information on a platform, the user can view platform definitions from GCMD by clicking the information icon ([i](#)) next to the platform name. See the screenshot below for an example.

Note: If there is no corresponding information in GCMD, this link will not work.



Platform: ALTUS

[Click to view more](#)

Synonymous Platform Names:

[Click to view more](#)

Related Data Sets

[View all 4 records related to this platform](#)

Description

The ALTUS II, the first of the two craft to be completed, made its first flight on May 1, 1996. With its engine at first augmented by a single-stage turbocharger, the ALTUS II reached an altitude of ... [Click to view more](#)

Online Resource:

<http://www.nasa.gov/centers/dryden/news/FactSheets/FS-058-DFRC.html>

Launch Date: 1996-05-01

Primary Sponsors:

NASA

Campaigns

Make a selection by clicking on the desired Campaign. Click and drag the mouse to select more than one item. Based upon your selection the datasets associated will be filtered.

Search by Campaigns



Click & drag to select 1 or more items.

Campaigns (Any of 304)

clear

2009_AN_NASA

2009_GR_NASA

2010_AN_NASA

2010_GR_NASA

2011_AN_NASA

2011_GR_NASA

2012_AN_NASA

2012_GR_NASA

2013_AN_NASA

2013_GR_NASA

Processing Levels

For more information on Processing Levels please refer to [this website](#).

Make a selection from any of the processing levels by clicking on the desired level. Click and drag the mouse to select more than one item. Based upon your selection the datasets associated will be filtered.

Search by Processing Levels



Click & drag to select 1 or more items. Processing levels listed below are dynamically generated from the data. Select multiple similar values to get the best search results.

Processing Level (Any of 14)

[clear](#)

0

1

1A

1B

2

2G

2P

3

4

L1B

GCMD Science Keywords

For more information on Science Keywords please refer to [this website](#).

Make a selection by expanding the plus (+) symbol next to the keyword and clicking on the desired science keyword check box. Checking a parent box checks all children boxes. Based upon your selection the datasets associated will be filtered.

Search by Science Keywords



Selecting a parent means all children are included in the search.

Science Keywords

[clear](#)

List of Selected Keywords

- ☐ ATMOSPHERE
- ☒ EARTH SCIENCE
 - ☐ AGRICULTURE
 - ☐ ATMOSPHERE
 - ☐ BIOLOGICAL CLASSIFICATION
 - ☐ BIOMASS
 - ☐ BIOSPHERE
 - ☐ CLIMATE INDICATORS
 - ☐ CRYOSPHERE
 - ☐ HUMAN DIMENSIONS
 - ☐ HYDROSPHERE
 - ☐ Human Dimensions
 - ☐ LAND SURFACE

Search by Science Keywords

Selecting a parent means all children are included in the search.

Science Keywords

List of Selected Keywords

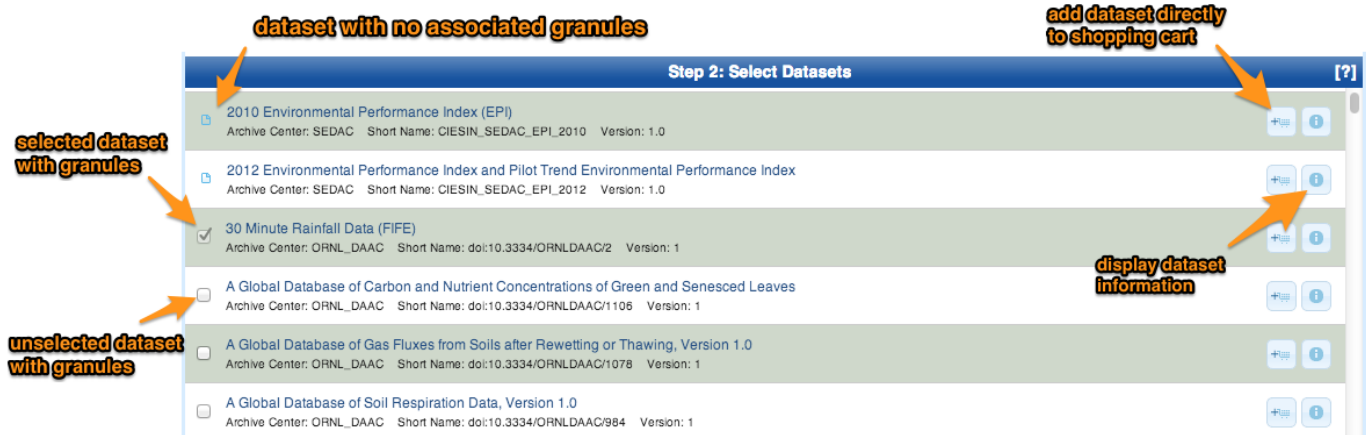
AGRICULTURE>>AGRICULTURAL PLANT SCIENCE>>CROPPING SYSTEM

- ☐ ATMOSPHERE
- ☒ EARTH SCIENCE
 - ☐ AGRICULTURE
 - ☐ AGRICULTURAL AQUATIC SCIENCES
 - ☐ AGRICULTURAL CHEMICALS
 - ☐ AGRICULTURAL COMMODITIES
 - ☒ AGRICULTURAL PLANT SCIENCE
 - ☐ ABOVEGROUND BIOMASS
 - ☐ CROP/PLANT YIELDS
 - ☒ CROPPING SYSTEMS
 - ☐ IRRIGATION
 - ☐ PLANT DISEASES/DISORDERS/PESTS
 - ☐ UNDEFINED
 - ☐ ANIMAL COMMODITIES

Step 2: Select Datasets

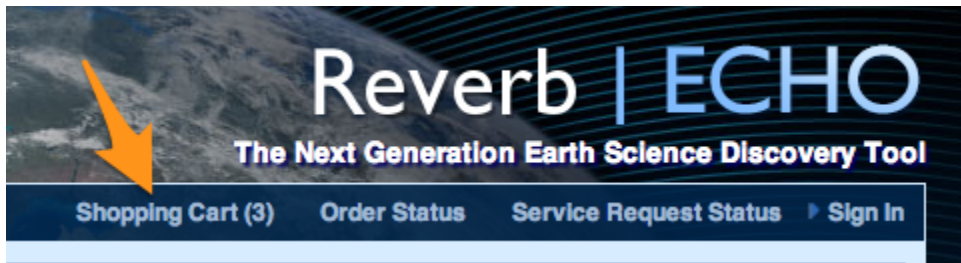
Next to each dataset **with granules** there's a check box on left side. Click the check box for each dataset you would like to search. A check mark symbol should appear in the box. Datasets without granules are not selectable. User can also add datasets to the shopping cart by clicking the shopping icon (

) . Re-clicking the shopping cart icon will remove the dataset from the cart. Clicking the information icon () next to the dataset will bring up information about that dataset. Refer to the annotated screenshot below.



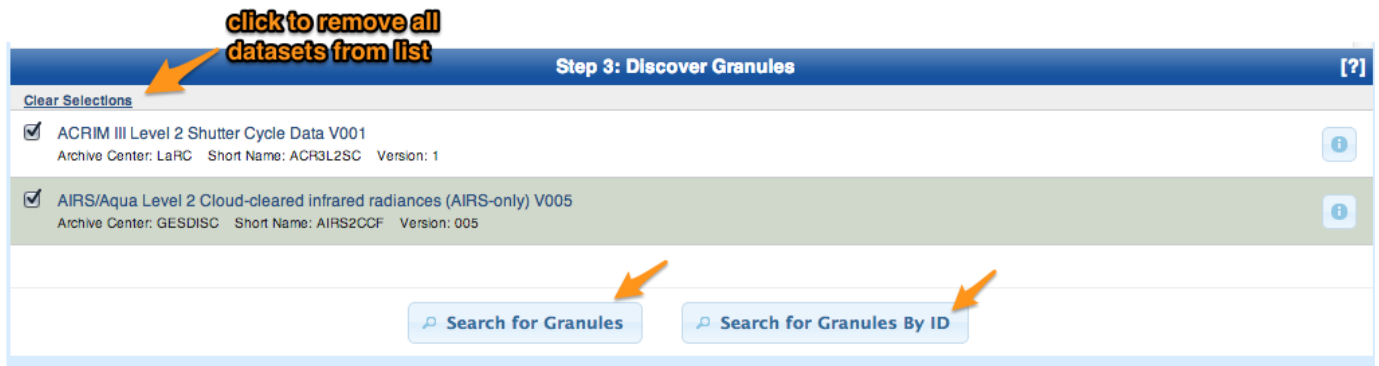
Accessing the Shopping Cart Directly

To jump directly to the Ordering/Download/Service process if you have added entire datasets to your shopping cart, simply click the Shopping Cart menu item in the top menu bar as shown. Otherwise, proceed to Step 3.



Step 3: Discover Granules

Once you have completed Step 2 you can **Discover Granules** by selecting **Search for Granules** or **Search for Granules by ID**. A list of the datasets selected will be shown. Datasets can be removed from the list by clicking the check box. All of the datasets selected may be removed by selecting the link '**Clear Selections**'.



Searching for Granules By ID

If you know the Granule URs or the Local Granule ID for the specific data you want to order, you can click on the **Search for Granules By ID** button in Step 3. This will show the following dialog on the next screen, allowing you to specify these values directly.

Search by ID: 'AIRS/Aqua Level 2 CO2 support retrieval (AIRS+AMSU) V005'



☒ Search by Granule UR ☐ Search by Local Granule ID

Enter one ID or pattern per line. Wildcards % (0 or more characters) and _ (exactly one character) indicate a pattern. Use \ to escape any wildcards in an ID.

Clear

OK

Cancel